

WHAT IS CLAIMED IS:

1. An engine for a personal watercraft having an open-looped cooling system configured to take in water from outside the watercraft, for use as cooling water to cool the engine and thereafter discharge the cooling water outside the watercraft, the engine comprising:

a cylinder block having a water jacket within which the cooling water flows;  
and

a piston that reciprocates within the cylinder block, wherein a dimension of the water jacket in a reciprocation direction of the piston is equal to or less than a half of a reciprocation distance of the piston.

2. The engine for a personal watercraft according to Claim 1, further comprising:

a cylinder head provided on the cylinder block and configured to form a combustion chamber, wherein

the water jacket is provided in an end portion of the cylinder block on the cylinder head side so as to surround the piston.

3. The engine for a personal watercraft according to Claim 2, wherein the water jacket is configured to open in an end face of the cylinder block on the cylinder head side.

4. The engine for a personal watercraft according to Claim 1, further comprising:

a cylinder head provided on the cylinder block and configured to form a combustion chamber, wherein

the cylinder block and the cylinder head are configured to be cooled by cooling water, and the cylinder block is placed downstream of the cylinder head in a flow direction of the cooling water in the cooling system.

5. The engine for a personal watercraft according to Claim 1, wherein the piston is configured to reciprocate according to a four stroke cycle.

6. A personal watercraft comprising:

a water jet pump configured to propel the watercraft;

an engine configured to drive the water jet pump; and

a cooling system configured to cool the engine with water, wherein

the cooling system has at least two water-drawing passages through which the water is drawn from an inside of the water jet pump for use as cooling water.

7. The personal watercraft according to Claim 6, wherein a plurality of water-drawing holes of the water-drawing passages are circumferentially arranged on an outer periphery of the water jet pump.

8. The personal watercraft according to Claim 6, wherein the engine comprises a cylinder block having a water jacket within which the cooling water flows, and a piston that reciprocates within the cylinder block, wherein

a dimension of the water jacket in a reciprocation direction of the piston is equal to or less than a half of a reciprocation distance of the piston.

9. The personal watercraft according to Claim 6, further comprising:  
an exhaust device of the engine which is configured to be cooled by the cooling water, wherein

the engine has a cylinder block configured to be cooled by the cooling water, and the cylinder block is placed downstream of the exhaust device in a flow direction of the cooling water in the cooling system.

10. The personal watercraft according to Claim 6, wherein the engine comprises a cylinder block and a cylinder head configured to be cooled by the cooling water, and the cylinder block is placed downstream of the cylinder head in a flow direction of the cooling water in the cooling system.